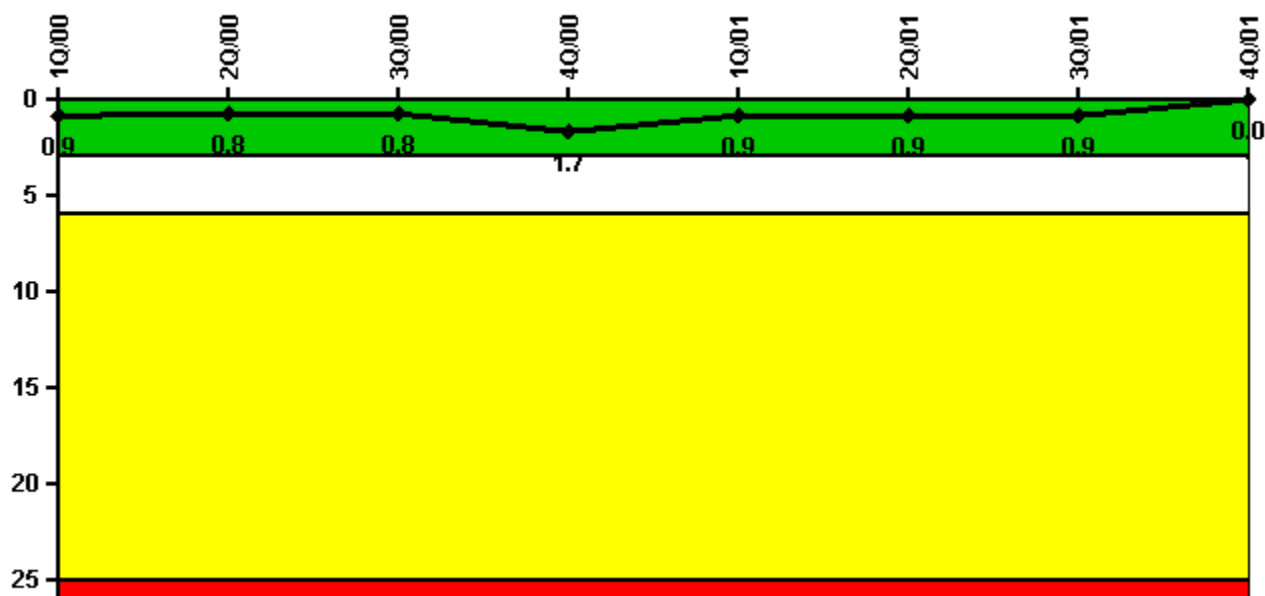


## Sequoyah 2

## 4Q/2001 Performance Indicators

Licensee's General Comments: Reason for changes noted in Comments section

### Unplanned Scrams per 7000 Critical Hrs



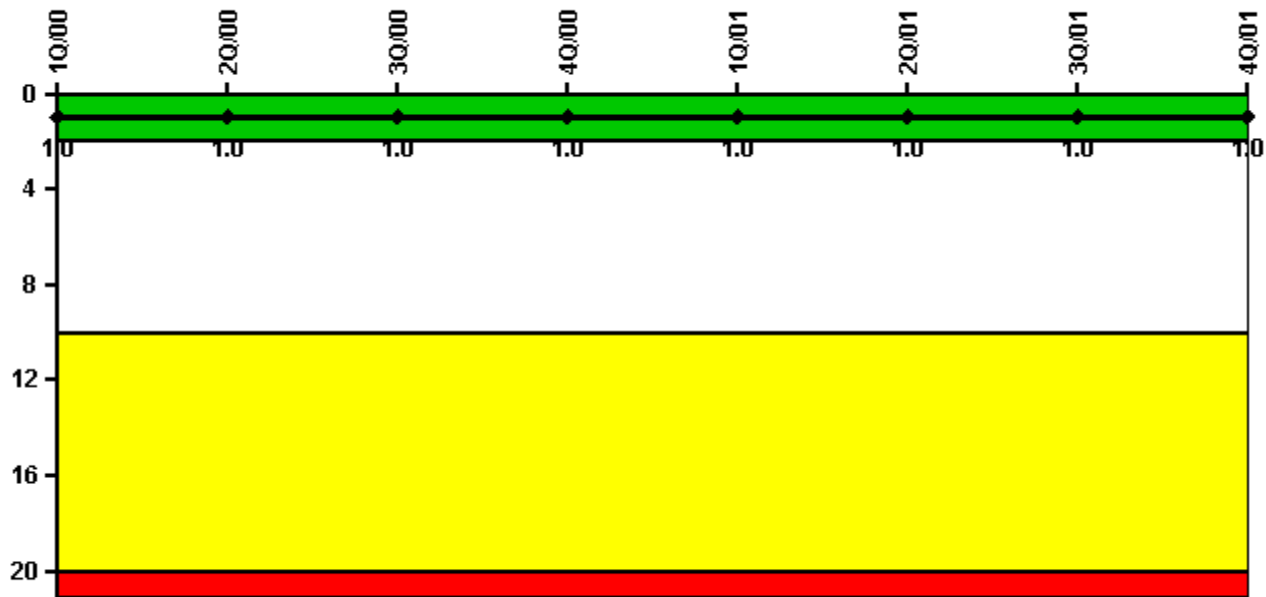
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned scrams	1.0	0	0	1.0	0	0	0	0
Critical hours	2142.8	2183.0	2208.0	1656.2	2160.0	2183.0	2208.0	2209.0
Indicator value	0.9	0.8	0.8	1.7	0.9	0.9	0.9	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



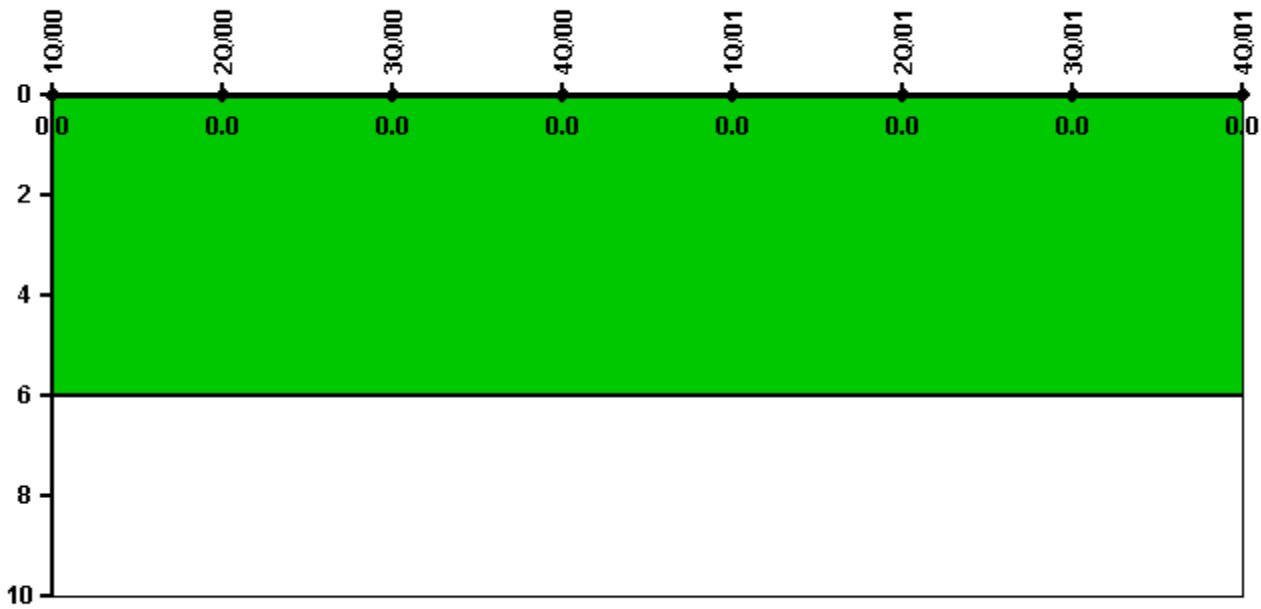
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

### Notes

Scrams with Loss of Normal Heat Removal	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Scrams	1.0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



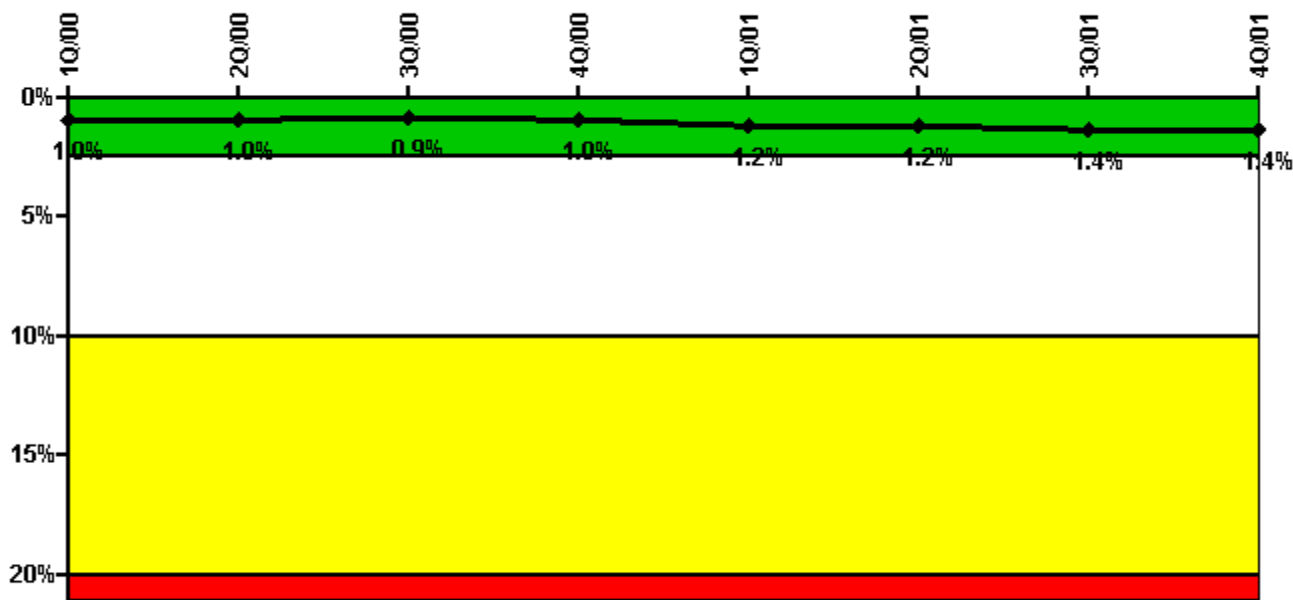
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2142.8	2183.0	2208.0	1656.2	2160.0	2183.0	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

## Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
<b>Train 1</b>								
Planned unavailable hours	39.95	1.65	9.47	17.92	87.97	4.50	90.72	123.50
Unplanned unavailable hours	0	0	0	3.77	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	2.73	134.92	2.20	6.15	57.22	3.62	2.53	7.08
Unplanned unavailable hours	0	0	0	14.53	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 3</b>								
Planned unavailable hours	38.47	1.90	2.78	13.10	131.72	4.13	2.13	1.95
Unplanned unavailable hours	0	0	0	24.53	0	0	0	24.17
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 4</b>								
Planned unavailable hours	2.17	5.43	4.52	10.50	157.67	8.33	57.95	9.87
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>1.0%</b>	<b>1.0%</b>	<b>0.9%</b>	<b>1.0%</b>	<b>1.2%</b>	<b>1.2%</b>	<b>1.4%</b>	<b>1.4%</b>

### Licensee Comments:

4Q/01: 1)Evaluating potential fault exposure on train 3. Will complete Q1/2002. 2)Impact of SSPS unavailability associated with Emergency Diesel Generators is being evaluated (Reference FAQ 290).

1Q/01: JAN01 train 1 unplanned hrs were changed to planned hrs based on review performed for PER 01-2932-000

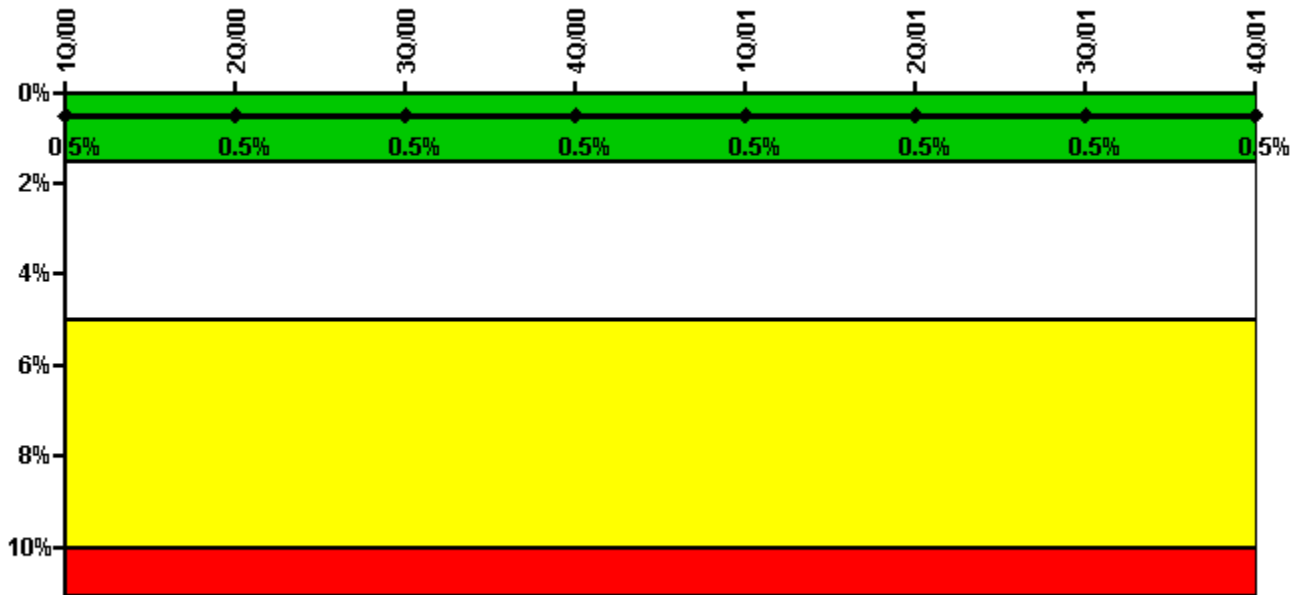
4Q/00: DEC00 unplanned hrs for all trains were changed to planned (with the exception of 4.617 on train 3) following review performed for PER

01-2932-000

2Q/00: APR00 Train 2 unplanned hrs were changed to planned hrs based on review performed for PER-01-2932-000

4Q/99: Nov99 Train 4 unplanned hrs were changed to planned hrs based on review for PER 01-2932-000

## Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

### Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
<b>Train 1</b>								
Planned unavailable hours	7.10	5.10	10.40	2.30	10.70	3.70	17.10	2.40
Unplanned unavailable hours	0	0	0	0	0	0	0	4.10
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1748.40	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	9.20	5.60	3.10	19.70	3.90	11.50	16.90	3.50
Unplanned unavailable hours	0	0	0	9.90	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1748.40	2160.00	2183.00	2208.00	2209.00
<b>Train 3</b>								
Planned unavailable hours	20.40	5.20	11.00	5.40	7.30	6.10	9.00	4.40
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1734.10	2160.00	2183.00	2208.00	2209.00
<b>Train 4</b>								
Planned unavailable hours	10.80	7.40	15.80	1.70	4.90	9.00	20.60	4.00
Unplanned unavailable hours	2.60	0	0	9.90	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1734.10	2160.00	2183.00	2208.00	2209.00

Indicator value	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%

## Licensee Comments:

3Q/01: Hours were revised to add SSPS unavailability which was required by FAQ #290.

2Q/01: 1)Revised 2Q, 3Q, and 4Q 2000 and 1Q 2001 data to include planned unavailability resulting from testing and support system unavailability. Color unaffected. 2)Hours were revised to add SSPS unavailability which was required by FAQ #290.

1Q/01: 1)Testing and support system unavailability hours added with 2Q/01 report. Color unaffected. 2)Hours were revised to add SSPS unavailability which was required by FAQ #290.

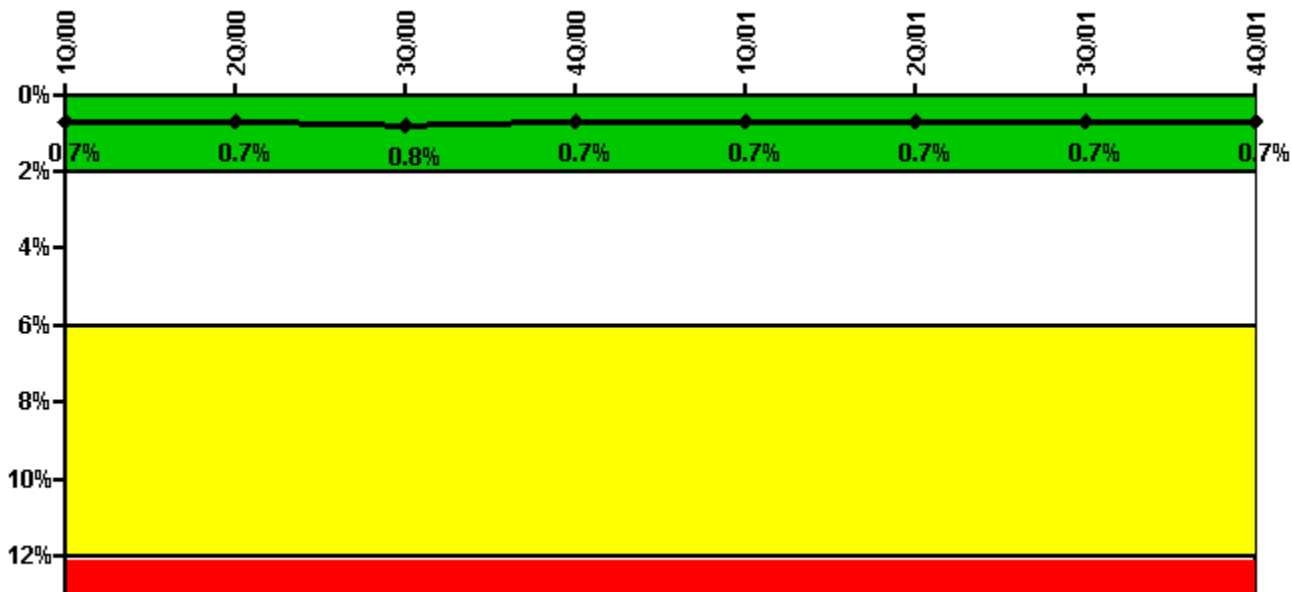
4Q/00: 1)Testing and support system unavailability hours added with 2Q/01 report. Color unaffected. 2)DEC00 hours were revised to add SSPS unavailability which was required by FAQ #290.

3Q/00: 1)Testing and support system unavailability hours added with 2Q/01 report. Color unaffected. 2)Hours were revised to add SSPS unavailability which was required by FAQ #290.

2Q/00: 1)Testing hours added with 2Q/01 report. Color unaffected. 2)Hours were revised to add SSPS unavailability which was required by FAQ #290.

1Q/00: Changes were made to add SSPS unavailability which was required by FAQ #290.

### Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

### Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
<b>Train 1</b>								
Planned unavailable hours	12.48	12.15	15.38	12.70	2.80	12.08	3.17	16.32
Unplanned unavailable hours	15.50	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1734.10	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	10.72	12.96	19.11	5.51	4.61	11.60	6.21	11.28

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1748.40	2160.00	2183.00	2208.00	2209.00
<b>Train 3</b>								
Planned unavailable hours	14.60	9.63	2.58	0.77	13.70	3.95	6.54	4.12
Unplanned unavailable hours	0	0	0	6.80	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1710.10	2160.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>

#### Licensee Comments:

3Q/01: JUL01 train 1, AUG01 train 2, and SEP01 train 1 hours were revised to add SSPS unavailability which was required by FAQ #290.

2Q/01: 1)Apr00, May00, Jul00 and OCT00 unavailability hours have been revised to include additional testing unavailability. 2)Hours for APR01 train 1 and train 2, MAY01 train 1, and JUN01 train 2 were revised to add SSPS unavailability which was required by FAQ #290.

1Q/01: JAN01 train 2, FEB01 train 1 and MAR01 train 2 hours were revised to add SSPS unavailability which was required by FAQ #290.

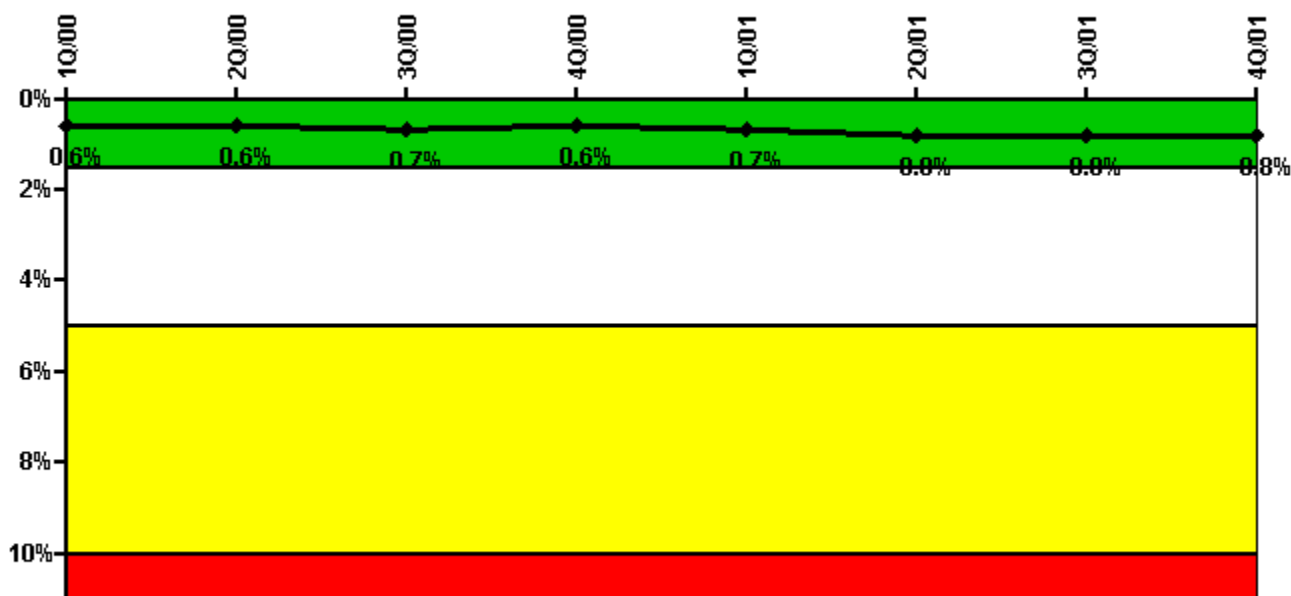
4Q/00: 1)Fault exposure hours from a previous design deficiency were not reported. Oct00 Train 2 revised to include testing unavailability. 2)Hours for DEC00 train 1 were revised to add SSPS unavailability which was required by FAQ #290.

3Q/00: 1)Jul00 Train 2 and Train 3 revised to include testing unavailability. 2)Hours for JUL00 train 2, AUG00 train 1, and SEP00 train 1 and train 2 were revised to add SSPS unavailability which was required by FAQ #290.

2Q/00: 1)Apr00 Train 2 and Train 3 revised to include testing unavailability. May00 Train 1 revised to include testing unavailability. 2)MAY00 train 1 and train 2 and JUN00 train 1 hours were revised to add SSPS unavailability which was required by FAQ #290.

1Q/00: Hours were revised for JAN00 train 1, FEB00 train 2, and MAR00 train 1 and train 2 to add SSPS unavailability which was required by FAQ #290.

### Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Safety System Unavailability, Residual Heat Removal System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
<b>Train 1</b>								
Planned unavailable hours	24.50	10.20	15.30	11.80	20.50	10.10	7.70	4.80
Unplanned unavailable hours	0	0	0	0	3.20	54.40	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2131.70	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	9.80	6.20	27.10	17.60	3.20	3.10	16.20	12.60
Unplanned unavailable hours	0	0	0	9.90	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2131.70	2160.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>

## Licensee Comments:

3Q/01: Hours were revised to add SSPS unavailability per FAQ #290.

2Q/01: 1)Train 1 RHR heat exchanger discharge isolation valve to component cooling tripped on thermal overload; used entire LCO time including time from when the valve operator tripped to the time the valve was left in the failed open position so that it could perform its safety function. Also, revised 2Q, 3Q, and 4Q 2000 and 1Q 2001 data to include planned unavailability resulting from testing and support system unavailability. Color unaffected. Oct00 unplanned hours were incorrectly entered on Train 1 and have been correctly moved to Train 2. 2)Hours were revised to add SSPS unavailability which was required by FAQ #290.

1Q/01: 1)Testing and support system unavailability hours added with 2Q/01 report. Color unaffected. 2)Hours were revised to add SSPS unavailability which was required by FAQ #290.

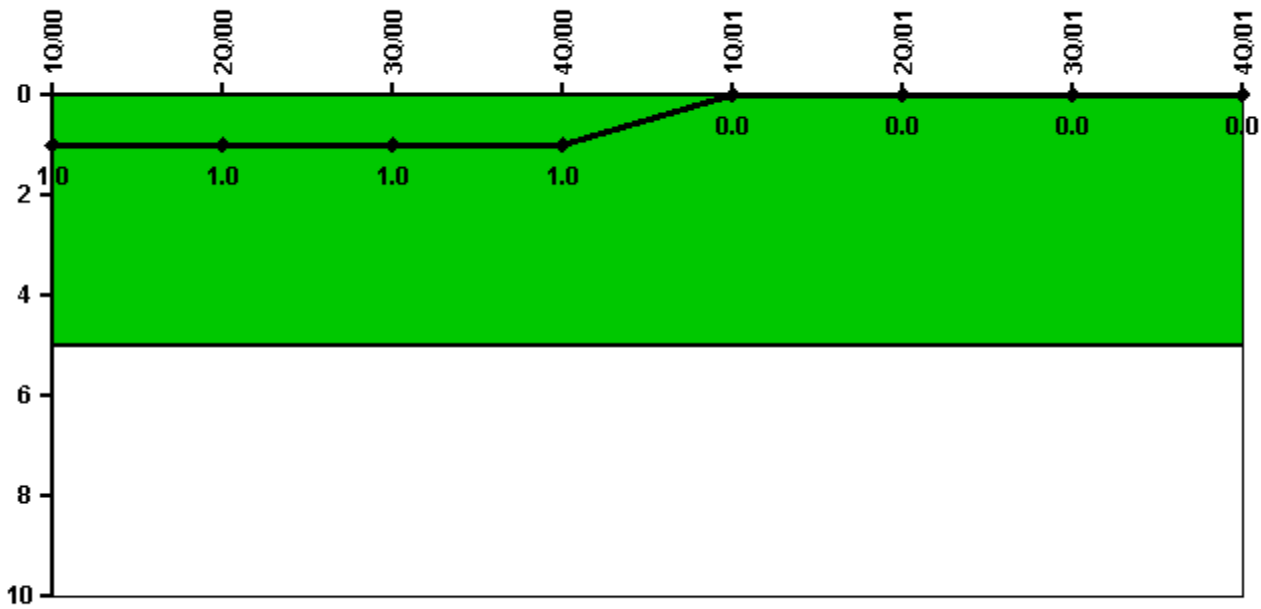
4Q/00: 1)Testing and support system unavailability hours added with 2Q/01 report. Color unaffected. Also, 9.9 unplanned unavailable hours previously reported on Train 1 for October has been moved to Train 2 as the result of a previous data entry error. 2)Hours for DEC00 were revised to add SSPS unavailability which was required by FAQ #290.

3Q/00: 1)Testing and support system unavailability hours added with 2Q/01 report. Color unaffected. 2)Hours were revised to add SSPS unavailability which was required by FAQ #290.

2Q/00: 1)Testing hours added with 2Q/01 report. Color unaffected. 2)MAY00 and JUN00 hours were revised to add SSPS unavailability which was required by FAQ #290.

1Q/00: Hours were revised to add SSPS unavailability which was required by FAQ #290.

### Safety System Functional Failures (PWR)



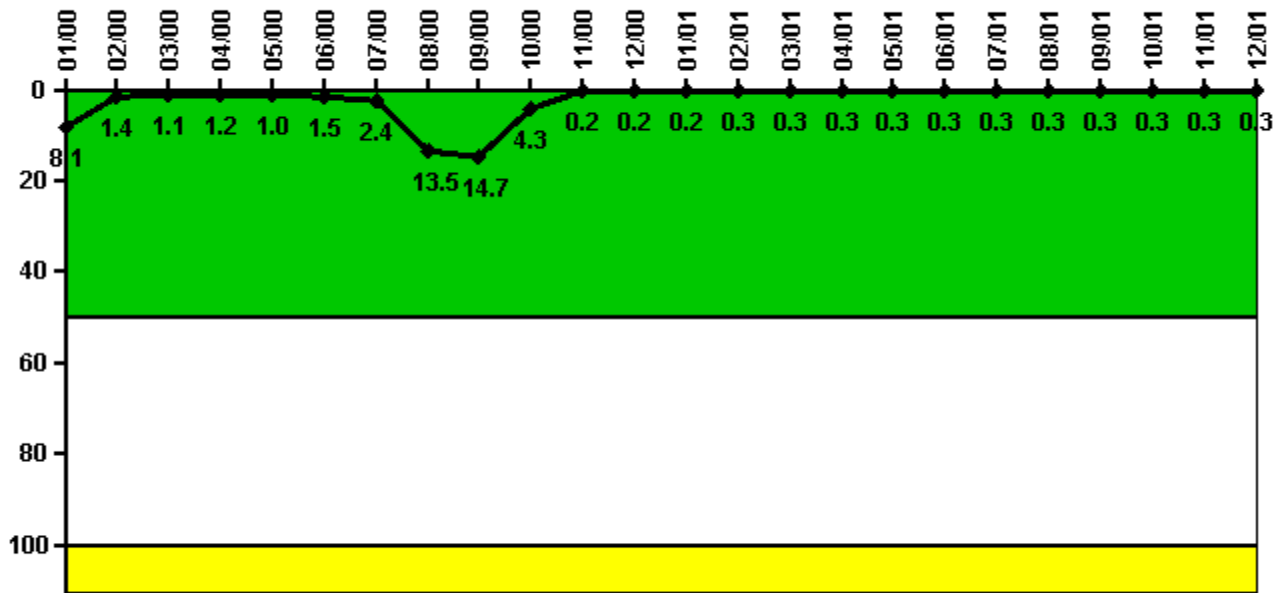
Thresholds: White > 5.0

### Notes

Safety System Functional Failures (PWR)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

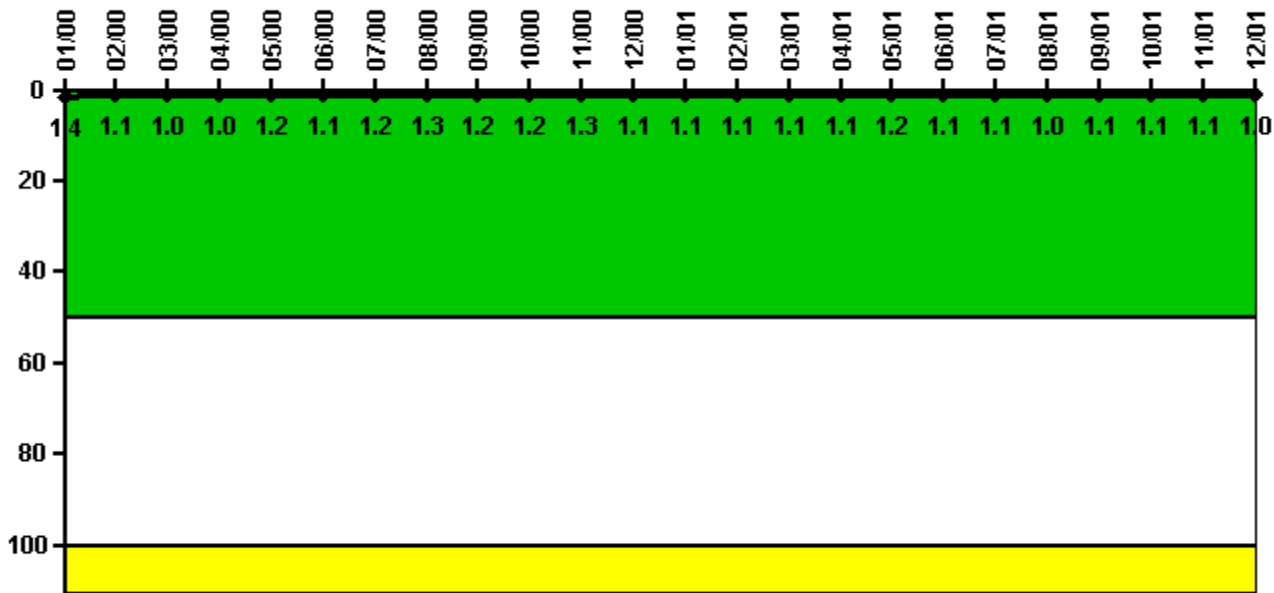
Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.028400	0.004800	0.003870	0.004170	0.003570	0.005160	0.008430	0.047300	0.051400	0.010800	0.000613	0.000584
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
Indicator value	8.1	1.4	1.1	1.2	1.0	1.5	2.4	13.5	14.7	4.3	0.2	0.2

Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000590	0.000789	0.000635	0.000667	0.000742	0.000694	0.000774	0.000760	0.000780	0.000763	0.000847	0.000794
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Licensee Comments: none

## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

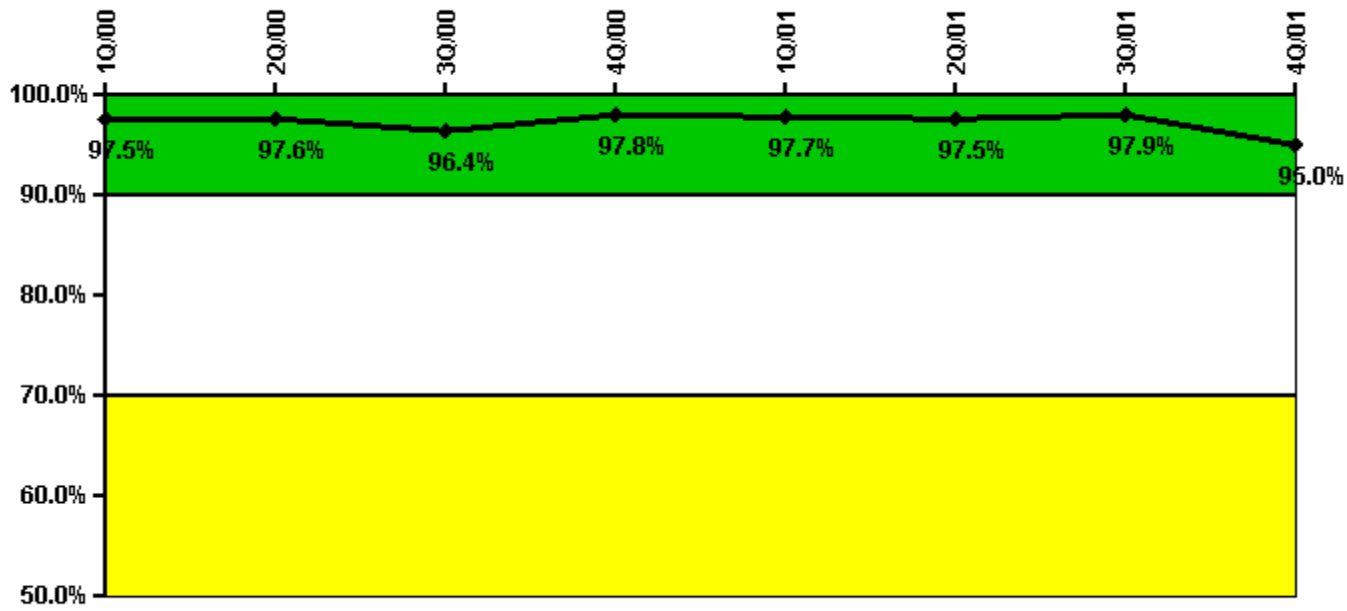
### Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	0.140	0.110	0.100	0.100	0.120	0.110	0.120	0.130	0.120	0.120	0.130	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.4	1.1	1.0	1.0	1.2	1.1	1.2	1.3	1.2	1.2	1.3	1.1

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	0.110	0.110	0.110	0.110	0.120	0.110	0.110	0.100	0.110	0.110	0.110	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.0	1.1	1.1	1.1	1.0

Licensee Comments: none

**Drill/Exercise Performance**

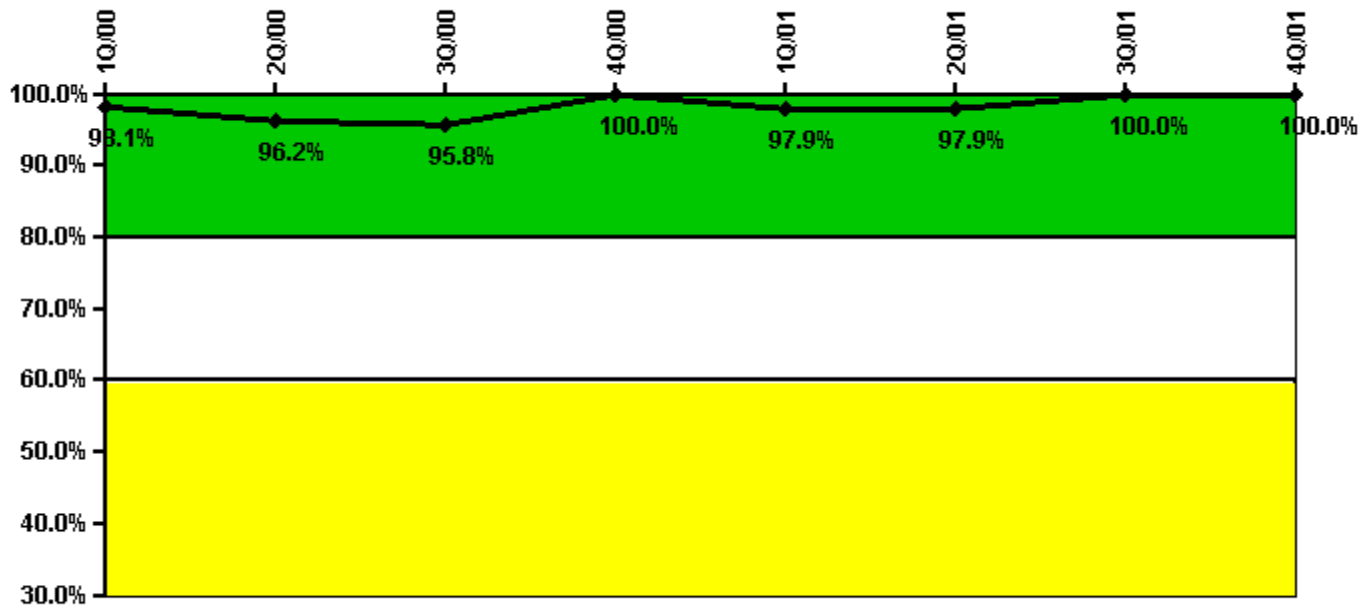
Thresholds: White < 90.0% Yellow < 70.0%

**Notes**

Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	0	8.0	23.0	38.0	0	4.0	31.0	30.0
Total opportunities	0	8.0	25.0	38.0	0	4.0	32.0	34.0
Indicator value	97.5%	97.6%	96.4%	97.8%	97.7%	97.5%	97.9%	95.0%

Licensee Comments: none

### ERO Drill Participation



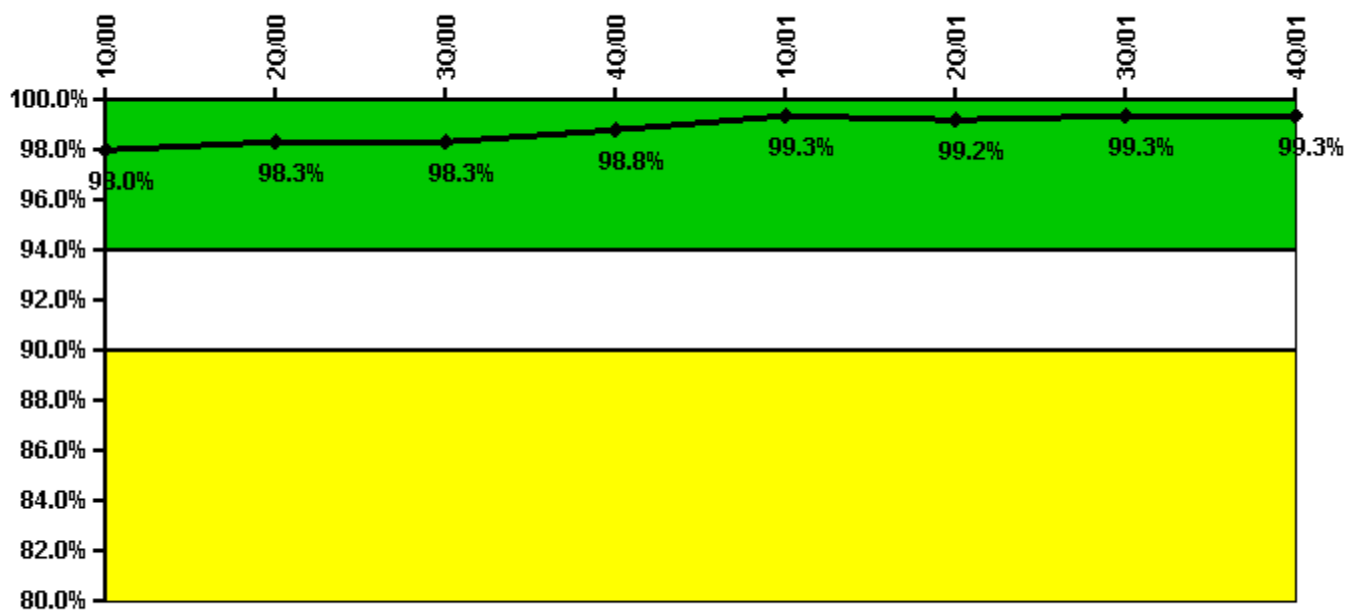
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Participating Key personnel	52.0	50.0	46.0	47.0	46.0	47.0	56.0	56.0
Total Key personnel	53.0	52.0	48.0	47.0	47.0	48.0	56.0	56.0
Indicator value	98.1%	96.2%	95.8%	100.0%	97.9%	97.9%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



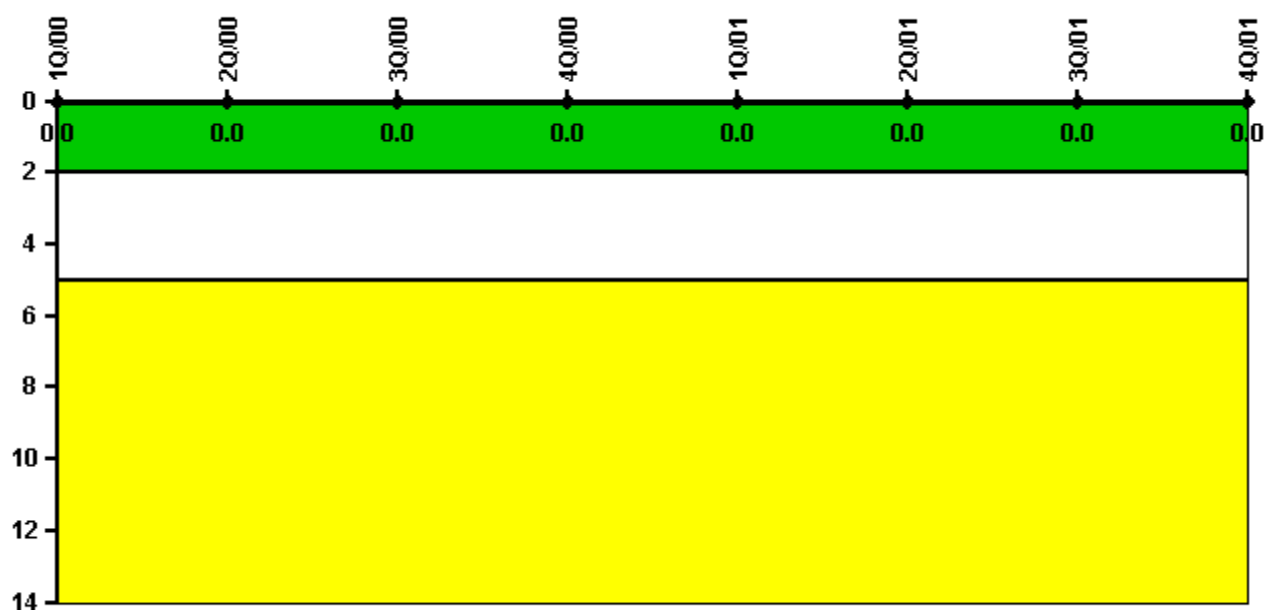
Thresholds: White < 94.0% Yellow < 90.0%

### Notes

Alert & Notification System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful siren-tests	945	856	963	863	749	961	859	970
Total sirens-tests	972	864	972	864	756	972	864	972
Indicator value	98.0%	98.3%	98.3%	98.8%	99.3%	99.2%	99.3%	99.3%

Licensee Comments: none

### Occupational Exposure Control Effectiveness

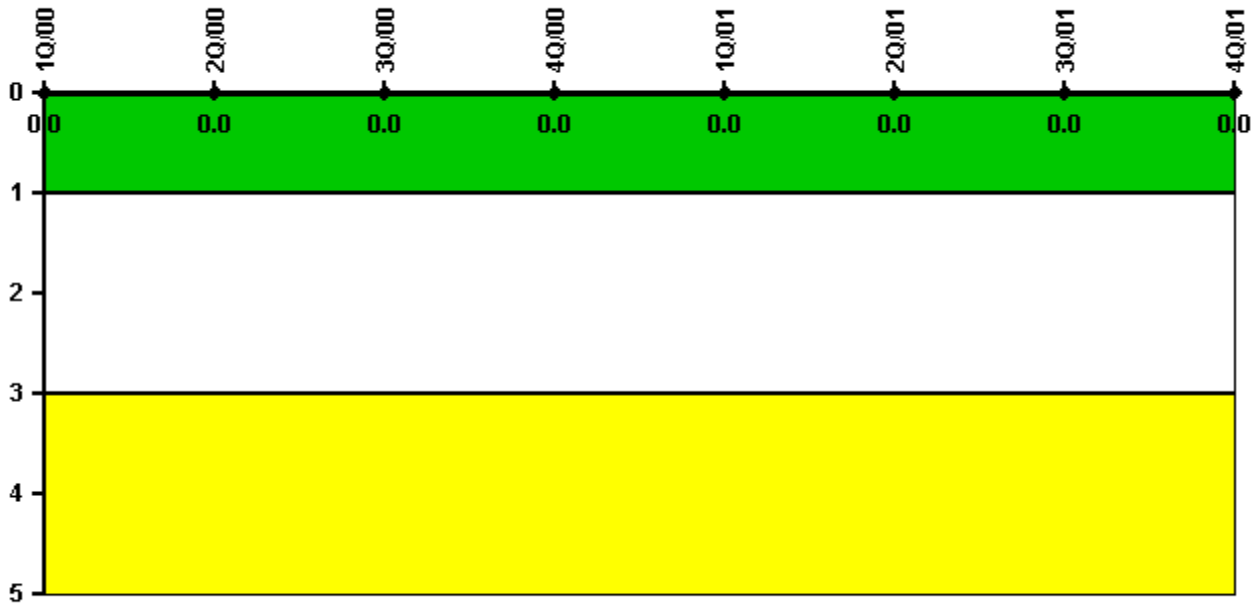


Thresholds: White > 2.0 Yellow > 5.0

### Notes

Occupational Exposure Control Effectiveness	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

**RETS/ODCM Radiological Effluent**

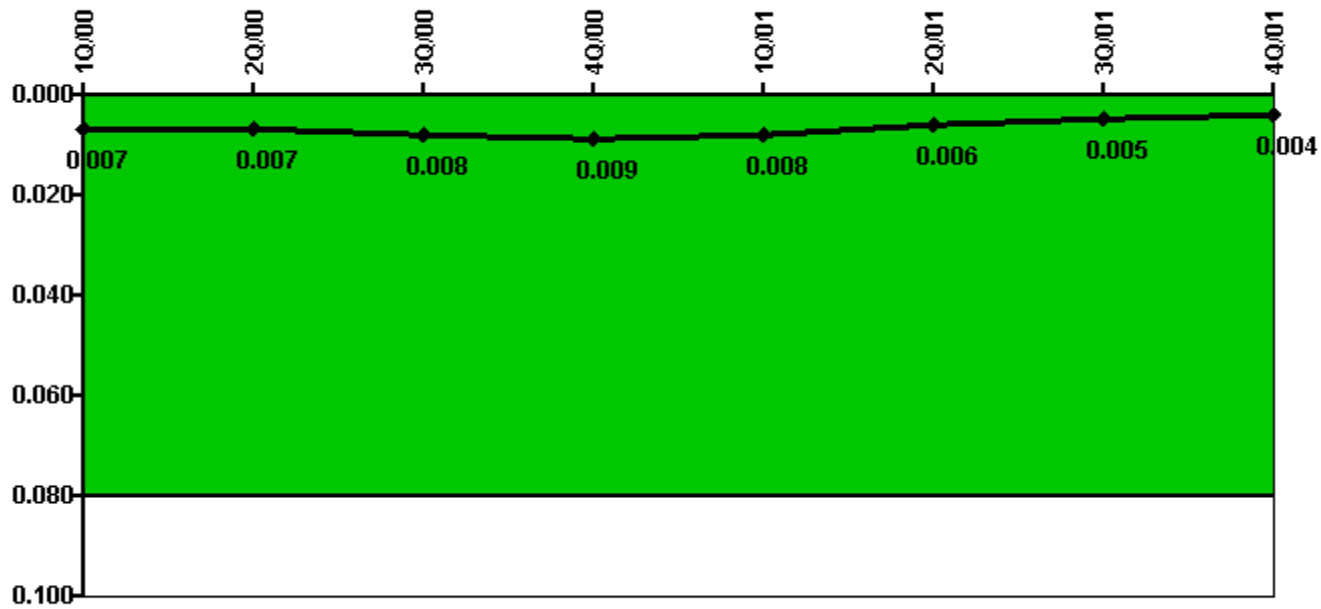
Thresholds: White > 1.0 Yellow > 3.0

**Notes**

RETS/ODCM Radiological Effluent	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



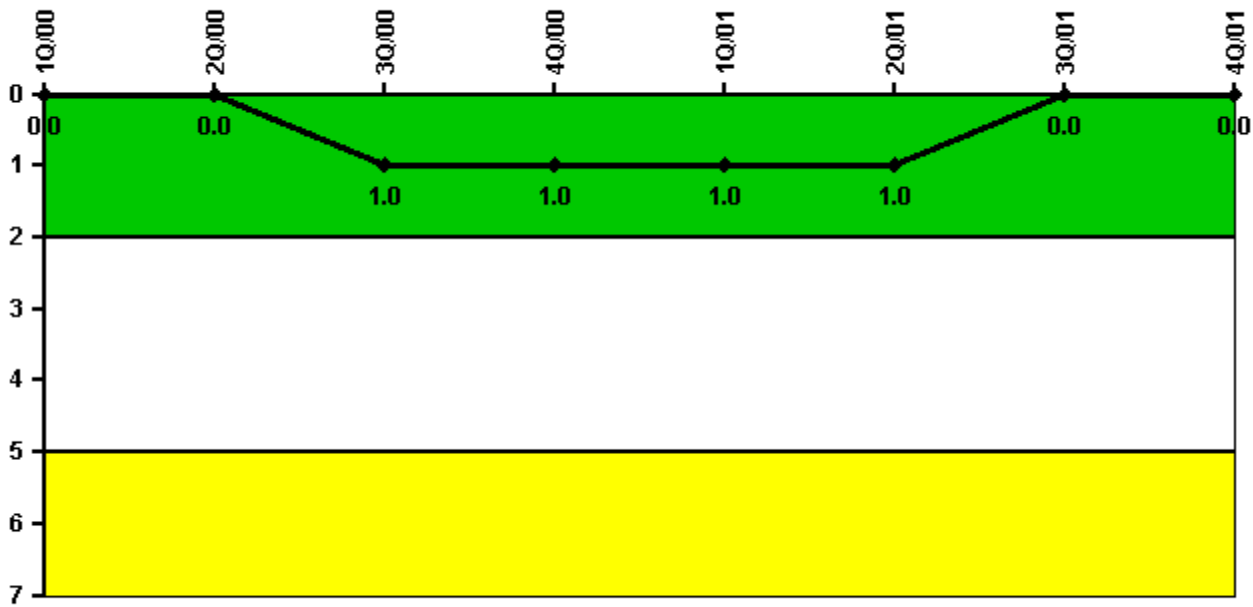
Thresholds: White > 0.080

### Notes

Protected Area Security Performance Index	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
IDS compensatory hours	12.40	166.40	117.21	135.00	73.67	42.11	41.09	28.17
CCTV compensatory hours	72.9	12.9	1.3	3.2	0.2	0.2	29.9	0
IDS normalization factor	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65
CCTV normalization factor	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Index Value	0.007	0.007	0.008	0.009	0.008	0.006	0.005	0.004

Licensee Comments: none

### Personnel Screening Program

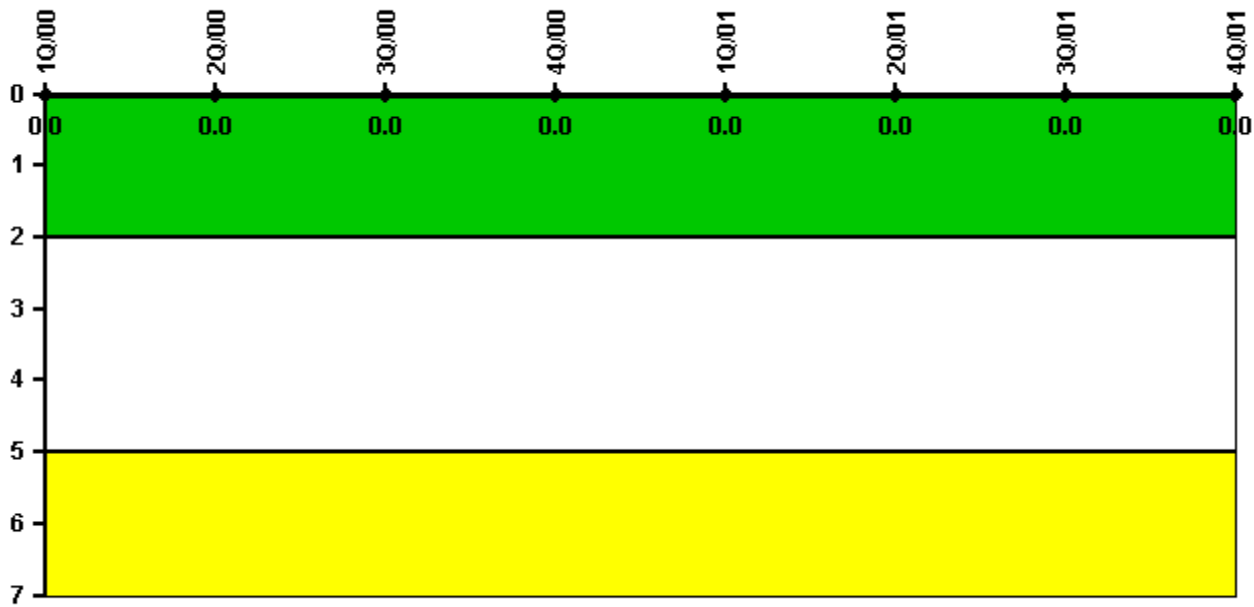


Thresholds: White > 2.0 Yellow > 5.0

### Notes

Personnel Screening Program	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Program failures	0	0	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

Licensee Comments: none

**FFD/Personnel Reliability**

Thresholds: White > 2.0 Yellow > 5.0

**Notes**

FFD/Personnel Reliability	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

▲ [PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 15, 2002